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## LISTING OF THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

## **LISTING OF CLAIMS**

1-20. (Canceled)

21. (Currently Amended) A method for processing location information request initiated by a User Equipment (UE), comprising:

receiving, by a Central Network (CN), a request for location information from a target UE, and the CN obtaining a location estimate of the target UE;

the CN sending, by the CN, the location estimate of the target UE to a Visited Gateway Mobile Location Center (V-GMLC) of the target UE; and

the V-GMLC sending receiving, by the CN, the location estimate of the target UE from the V-GMLC; and

sending, by the CN, the location estimate of the target UE to the target UE-via the CN.

22. (Previously presented) The method according to claim 21, further comprising:

according to a pre-stored V-GMLC address information, the CN sending the location estimate of the target UE to the V-GMLC.

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23. (Previously presented) The method according to claim 21, wherein, after the

step of the CN sending the location estimate of the target UE to the V-GMLC of the target

UE, the method further comprises:

the V-GMLC generating charging information of the target UE.

24. (Currently Amended) The method according to claim 21, wherein, after the

step of the CN sending the location estimate of the target UE to the V-GMLC of the target

UE, the method further comprises:

receiving, by the CN, the V-GMLC returning to the CN a response for the location

estimate of the target UE from the V-GMLC.

25. (Currently Amended) The method according to claim 21, further comprising:

receiving, by the CN, a requester identifier from the target UE;

the CN providing, by the CN, the V-GMLC with the requester identifier; and so that

the V-GMLC sending sends the location estimate of the target UE to the requester.

26. (Currently Amended) The method according to claim 25, wherein, the step of

the V-GMLC sending sends the location estimate of the target UE to the requester

comprises:

the V-GMLC determining whether the V-GMLC can directly access the requester

according to the requester identifier,

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if the V-GMLC can directly access the requester according to the requester

identifier, the V-GMLC directly sending the location estimate of the target UE to the

requester; otherwise, according to the requester identifier, the V-GMLC finding a GMLC

that can directly access the requester, and sending the location estimate of the target UE

to the requester through the GMLC.

27. (Currently Amended) The method according to claim 25, wherein, after the

step of the V-GMLC sending the location estimate of the target UE to the requester, the

method further comprises:

the requester returning a first response for the location estimate of the target UE to

the V-GMLC, and

the V-GMLC returning receiving, by the CN, a second response for the location

estimate of the target UE to the CN from the V-GMLC after the requester returns a first

response for the location estimate of the target UE to the V-GMLC.

28. (Currently Amended) The method according to claim 26, wherein, after the

step of the V-GMLC directly sending the location estimate of the target UE to the

requester, the method further comprises:

the requester returning a first response for the location estimate of the target UE to

the V-GMLC, and the V-GMLC returning receiving, by the CN, a second response for the

location estimate of the target UE-to-the-CN from the V-GMLC after the requester returns a

first response for the location estimate of the target UE to the V-GMLC; and

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after the step of the V-GMLC finding the GMLC that can directly access the

requester and sending the location estimate of the target UE to the requester through the

GMLC, the method further comprises:

the requester returning receiving, by the GMLC, a first response for the location

estimate of the target UE to from the requester the GMLC,

the GMLC returning, by the GMLC, a second response for the location estimate of

the target UE to the V-GMLC, and

the V-GMLC returning, by the V-GMLC, a third response for the location estimate of

the target UE to the CN.

29. (Previously presented) The method according to claim 26, wherein, the step

of receiving, by the CN, the requester identifier from the target UE further comprises:

receiving, by the CN, address information of the GMLC that can access the

requester from the target UE;

the step of the CN sending the location estimate of the target UE to the V-GMLC of

the target UE further comprises:

the CN providing the address information of the GMLC to the V-GMLC; and

the step of the V-GMLC sending the location estimate of the target UE to the

requester comprises:

the V-GMLC receiving the location estimate of the target UE and sending the

location estimate of the target UE as well as the requester identifier to the GMLC according

to the address information of the GMLC; the GMLC receiving the location estimate of the

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target UE and sending the location estimate of the target UE to the requester according to

the requester identifier.

30. (Currently Amended) The method according to claim 29, wherein, after the

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step of the GMLC receiving the location estimate of the target UE and sending the location

estimate of target UE to the requester according to the requester identifier, further

comprising:

the requester returning receiving, by the GMLC, a first response for the location

estimate of the target UE-to-the-GMLC from the requester,

the GMLC returning, by the GMLC, a second response for the location estimate of

the target UE to the V-GMLC, and

the V-GMLC returning, by the V-GMLC, a third response for the location estimate of

the target UE to the CN.

31. (Previously Presented) The method according to claim 21, wherein, the CN

is any one of: a Mobile Switch Center (MSC), an MSC Server and a Serving GPRS

Support Node.

32. (Previously presented) The method according to claim 21, wherein, the step

of receiving, by the CN, the request for location information from the target UE comprises:

receiving, by the CN, an LCS MO-LR Location Services Invoke from the target UE.

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33. (Previously presented) A method for processing location information request

initiated by a User Equipment (UE), comprising:

a Center Network (CN) receiving a request for location information and a requester

identifier from a target UE;

the CN obtaining the location estimate of the target UE;

the CN sending the location estimate of the target UE to a V-GMLC of the target

UE;

the V-GMLC sending the location estimate of the target UE to the target UE via the

CN;

the V-GMLC sending the location estimate of the target UE to a H-GMLC; and

the H-GMLC sending the location estimate of the target UE to the requester.

34. (Previously presented) The method according to claim 33, wherein, after the

step of the CN sending the location estimate of the target UE to a V-GMLC of the target

UE, the method further comprises:

the V-GMLC generating charging information of the target UE.

35. (Previously presented) The method according to claim 33, wherein, after the

step of the V-GMLC sending the location estimate of the target UE to a H-GMLC, the

method further comprises;

the H-GMLC generating charging information of the target UE.

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36. (Previously presented) The method according to claim 33, wherein, the step

of the H-GMLC sending the location estimate of the target UE to the requester comprises:

the H-GMLC determining whether the H-GMLC can directly access the requester

according to the requester identifier, if the H-GMLC can directly access the requester

according to the requester identifier, the H-GMLC directly sending the location estimate of

the target UE to the requester; otherwise, according to the requester identifier, the H-

GMLC finding a GMLC that can directly access the requester and sending the location

estimate of the target UE to the requester through the GMLC.

37. (Currently Amended) The method according to claim 33, wherein, after the

step of the H-GMLC sending the location estimate of the target UE to the requester, the

method further comprises:

the requester returning receiving, by the H-GMLC, a response for the location

estimate of the target UE-to the H-GMLC from the requester,

the H-GMLC returning, by the H-GMLC, a response for the location estimate of the

target UE to the V-GMLC, and

the V-GMLC-returning, by the V-GMLC, a response for the location estimate of the

target UE to the CN.

38. (Currently Amended) The method according to claim 36, wherein, after the

H-GMLC directly sending the location estimate of the target UE to the requester, the

method further comprises:

the requester returning receiving, by the H-GMLC, a first response for the location estimate of the target UE to the H-GMLC from the requester,

the H-GMLC returning, by the H-GMLC, a second response for the location estimate of the target UE to the V-GMLC and

the V-GMLC returning, by the V-GMLC, a third response for the location estimate of target UE to the CN; and

after the step of the H-GMLC sending the location estimate of the target UE to the requester through the found GMLC, further comprising:

the requester returning receiving, by the GMLC, a response for the location estimate of the target UE to the GMLC from the requester,

the GMLC returning, by the GMLC, a response for the location estimate of the target UE to the H-GMLC.

the H-GMLC returning, by the H-GMLC, a response for the location estimate of the target UE to the V-GMLC; and

the V-GMLC returning, by the V-GMLC, a response for the location estimate of target UE to the CN.

39. (Currently Amended) The method according to claim 33, wherein, the step of the CN receiving the request for location information and the requester identifier from the target UE further comprises:

the CN-receiving, by the CN, address information of the GMLC that can access the requester from the target UE;

the step of the CN sending the location estimate of the target UE to the V-GMLC of

the target UE further comprises:

the CN providing the address information of the GMLC to the V-GMLC;

the step of the V-GMLC sending the location estimate of the target UE to the H-

GMLC further comprises:

the V-GMLC providing the address information of the GMLC to the H-GMLC; and

the step of the H-GMLC sending the location estimate of the target UE to the

requester comprises:

the H-GMLC receiving the location estimate of the target UE and sending the

location estimate of the target UE as well as the requester identifier to the GMLC according

to the address information of the GMLC;

the GMLC receiving the location estimate of the target UE and sending the location

estimate of the target UE to the requester according to the requester identifier.

40. (Currently Amended) The method according to claim 39, wherein, after the

step of the GMLC receiving the location estimate of the target UE and sending the location

estimate of the target UE to the requester according to the requester identifier, the method

further comprises:

the requester returning receiving, by the GMLC, a first response for the location

estimate of the target UE to the GMLC from the requester,

the GMLC returning, by the GMLC, a second response for the location estimate of

the target UE to the H-GMLC,

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the H-GMLC-returning, by the H-GMLC, a third response for the location estimate of

the target UE to the V-GMLC; and

the V-GMLC returning, by the V-GMLC, a fourth response for the location estimate

of target UE to the CN.

41. (Previously Presented) The method according to claim 33, wherein, the CN

is any one of: a Mobile Switch Center (MSC), an MSC Server and a SGSN.

42. (Previously presented) The method according to claim 33, wherein, the step

of the CN receiving the request for location information from the target UE comprises:

the CN receiving an LCS MO-LR Location Services Invoke to from the target UE.

43. (Previously presented) The method according to claim 21, further comprising:

sending, by the V-GMLC, the location estimate of the target UE to a GMLC that can

directly access a specified requester; and

providing, by the GMLC, the specified requester with the location estimate of the

target UE.

44. (Previously presented) The method according to claim 21, wherein the

location estimate of the target UE carries location information of the target UE, a requester

identifier, a target UE identifier and GMLC address information.

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45. (New) A method for processing location information request initiated by a

user equipment (UE), comprising:

receiving, by a visited gateway mobile location center (V-GMLC) of a target UE, a

location estimate of the target UE from a central network (CN) after the CN receives a

request for location information from the target UE, and the obtains the location estimate of

the target UE; and

sending, by the V-GMLC, the location estimate of the target UE to the target UE via

the CN.

46. (New) The method according to claim 45, wherein a requester identifier is

sent from the target UE to the CN, the method further comprising:

receiving, the V-GMLC, the requester identifier from the CN; and

sending, by the V-GMLC, the location estimate of the target UE to the requester.

47. (New) The method according to claim 46, wherein, the step of sending, by

the V-GMLC, the location estimate of the target UE to the requester comprises:

determining, by the V-GMLC, whether the V-GMLC can directly access the

requester according to the requester identifier;

if the V-GMLC can directly access the requester according to the requester

identifier, the V-GMLC directly sending the location estimate of the target UE to the

requester; otherwise, according to the requester identifier, the V-GMLC finding a GMLC

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that can directly access the requester, and sending the location estimate of the target UE

to the requester through the GMLC.

48. (New) The method according to claim 47, wherein, after the step of the V-

GMLC directly sending the location estimate of the target UE to the requester, the method

further comprises:

receiving, by the V-GMLC, a first response for the location estimate of the target UE

to from the requester, and

returning, by the V-GMLC, a second response for the location estimate of the target

UE to the CN; and

after the step of the V-GMLC finding the GMLC that can directly access the

requester and sending the location estimate of the target UE to the requester through the

GMLC, the method further comprises:

receiving, by the GMLC, a first response for the location estimate of the target UE

from the requester,

returning, by the GMLC, a second response for the location estimate of the target

UE to the V-GMLC, and

returning, by the V-GMLC, a third response for the location estimate of the target

UE to the CN.

49. (New) The method according to claim 47, wherein address information of the

GMLC that can access the requester is sent from the target UE to the CN;

the step of receiving, by the V-GMLC of the target UE, the location estimate of the

target UE from the CN further comprises:

receiving, by the V-GMLC, the address information of the GMLC from the CN; and

the step of sending, by the V-GMLC, the location estimate of the target UE to the

requester comprises:

receiving, by the V-GMLC, the location estimate of the target UE; and

sending, by the V-GMLC, the location estimate of the target UE as well as the

requester identifier to the GMLC according to the address information of the GMLC so that

the GMLC sends the location estimate of the target UE to the requester according to the

requester identifier.

50. (New) The method according to claim 49, further comprising:

receiving, by the V-GMLC, a second response for the location estimate of the target

UE from the GMLC after the requester returns a first response for the location estimate of

the target UE to the GMLC, and

returning, by the V-GMLC, a third response for the location estimate of the target

UE to the CN.